# **SAFETY DATA SHEET**



1/13

Version :2

CloneDetect

# Section 1. Identification

Product name	: CloneDetect
Other means of identification	: Not available.
Product type	: Liquid.
Product part number	: 🔀 8200 / K8205 / K8215 / K8220 / K8225 / K8230 / K8235 / K8240 / K8251 / K8252 / K8255
Kit name	: Recombinant Clone Detect for CHOK1S V
Kit part number	: <mark>\$</mark> K9003
Validation date	: 05/13/2021
	the substance or mixture and uses advised against
Product use	: For R&D use only.
Area of application	: Professional applications.
Manufacturer	: MOLECULAR DEVICES, LLC 3860 N First Street San Jose, CA 95134 USA
e-mail address of person responsible for this SDS	: msdsinquiry@moldev.com
Emergency telephone number (with hours of operation)	: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)

# Section 2. Hazards identification

:05/13/2021

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>	
Classification of the substance or mixture	: 🖁 319	EYE IRRITATION - Category 2A
GHS label elements		
Hazard pictograms		
Signal word	: Warning	
Hazard statements	: H319 - Causes s	erious eye irritation.
Precautionary statements		

Date of previous issue

:03/05/2018

**United States** 

Date of issue/Date of revision

# Section 2. Hazards identification

Prevention	: ₱280 - Wear eye or face protection. P264 - Wash thoroughly after handling.
Response	: ₱305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

**Ingredient name** % CAS number Other names sodium chloride ≤10 7647-14-5 2-(6-hydroxy-3-oxo-(3H)-xanthen-9-yl)benzoic 2321-07-5 ≤2.5 acid DyLight™ DyLight<sup>™</sup> Reactive Dyes <3 ≤2.5 9048-46-8 Albumins, blood serum potassium chloride Potassium chloride ≤2.5 7447-40-7 ≤3 7558-79-4 disodium hydrogenorthophosphate

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

# Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

# Section 4. First aid measures

Ingestion	: Mash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting
	unless directed to do so by medical personnel. If vomiting occurs, the head should be
	kept low so that vomit does not enter the lungs. Get medical attention if adverse health
	effects persist or are severe. Never give anything by mouth to an unconscious person.
	If unconscious, place in recovery position and get medical attention immediately.
	Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed				
Potential acute health effect	ts			
Eye contact	: Causes serious eye irritation.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
<u>Over-exposure signs/symp</u>	<u>toms</u>			
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	<ul> <li>Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>			
Specific treatments	: No specific treatment.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may			

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.

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be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides halogenated compounds metal oxide/oxides fumes (Toxic)
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	onta	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
sodium chloride 2-(6-hydroxy-3-oxo-(3H)-xanthen-9-yl)benzoic acid DyLight <sup>™</sup> Albumins, blood serum potassium chloride disodium hydrogenorthophosphate	None. None. None. None. None. None.		

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Section 8. Exposure controls/personal protection

	• •
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance		
Physical state	: Liquid.	
Color	: 📕 ellow., Pink, Blue. or Clear.	
Odor	: Not available.	
Odor threshold	: Not available.	
рН	: Not available.	
Melting point	: Not available.	
Boiling point	: Not available.	
Flash point	: Not available.	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not applicable.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: Not available.	
Density	: Not available.	
Solubility	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
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#### CloneDetect

# Section 9. Physical and chemical properties

SADT	: Not available.
Viscosity	: Not available.
	NT 6 11 11

: Not available. Flow time (ISO 2431)

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Sensitive to light.
Incompatible materials	: No specific data.
Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products should

# not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

products

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
disodium	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
hydrogenorthophosphate		Female		
	LD50 Oral	Rat	17000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit	_	mg 10 mg	_
	Skin - Mild irritant	Rabbit		24 hours 500	
		Rabbit	-	mg	-
2-(6-hydroxy-3-oxo-(3H)-	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
xanthen-9-yl)benzoic acid				uL	
potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
disodium	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
hydrogenorthophosphate				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
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# Section 11. Toxicological information

#### **Sensitization**

Not available.

<u>Mutagenicity</u>	
Conclusion/Summary	: Not available.
Carcinogenicity	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
<u>Teratogenicity</u>	
Conclusion/Summary	: Not available.
Specific target organ toxici	<u>ty (single exposure)</u>
Not available.	
Specific target organ toxici	t <u>y (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Routes of entry anticipated: Oral, Dermal, Inhalation.
routes of exposure	
Potential acute health effects	<u>S</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain or irritation
	watering
Inhelation	redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
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# Section 11. Toxicological information

Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
♥IoneDetect	13715.8	111250	N/A	N/A	N/A
sodium chloride	3000	N/A	N/A	N/A	N/A
2-(6-hydroxy-3-oxo-(3H)-xanthen-9-yl)benzoic acid	500	N/A	N/A	N/A	N/A
Albumins, blood serum	500	N/A	N/A	N/A	N/A
potassium chloride	2600	N/A	N/A	N/A	N/A
disodium hydrogenorthophosphate	17000	2500	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks
		Juvenile (Fledgling, Hatchling, Weanling)	
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
ootassium chloride	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 880 mg/l Fresh water	Fish - Pimephales promelas	96 hours
disodium nydrogenorthophosphate	Acute EC50 >100 mg/l Fresh water	Algae	72 hours
	Acute LC50 3580000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100 mg/l Fresh water	Fish	96 hours
	Acute NOEC >100 mg/l Fresh water	Algae	72 hours
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### Section 12. Ecological information

Acute NOEC 100 mg/l Fresh water Fish

**Conclusion/Summary** 

: Not available.

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
potassium chloride	-	-	Readily

96 hours

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
dísodium	-5.8	-	low
hydrogenorthophosphate			

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

**Other adverse effects** : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
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# Section 14. Transport information

Environmental	No.	No.	No.
hazards			

# Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

<u> </u>	J	
U.S. Federal regulations	: TSCA 8(a) CDR	Exempt/Partial exemption: Not determined
	United States in	ventory (TSCA 8b): Not determined.
	Clean Water Act	t (CWA) 311: disodium hydrogenorthophosphate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed	
Clean Air Act Section 602 Class I Substances	: Not listed	
Clean Air Act Section 602 Class II Substances	: Not listed	
DEA List I Chemicals (Precursor Chemicals)	: Not listed	
DEA List II Chemicals (Essential Chemicals)	: Not listed	
SARA 302/304		
Composition/information o	<u>n ingredients</u>	
No products were found.		
SARA 304 RQ	: Not applicable.	
SARA 311/312		
	EYE IRRITATION	- Category 2A
Composition/information o		
Name	%	Classification
sodium chloride 2-(6-hydroxy-3-oxo-(3H)- xanthen-9-yl)benzoic acid DyLight <sup>™</sup> Albumins, blood serum potassium chloride disodium hydrogenorthophosphate	≤10 ≤2.5 <3 ≤2.5 ≤2.5 ≤2.5 ≤3	EYE IRRITATION - Category 2A ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2B EYE IRRITATION - Category 2B
SARA 313		I
Not applicable.		
State regulations		

#### State regulations

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### Section 15. Regulatory information

-	-
Massachusetts	<ul> <li>The following components are listed: PHOSPHORIC ACID, DISODIUM SALT; SODIUM PHOSPHATE, DIBASIC</li> </ul>
New York	: The following components are listed: Sodium phosphate, dibasic
New Jersey	<ul> <li>The following components are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID, DISODIUM SALT</li> </ul>
Pennsylvania	: The following components are listed: PHOSPHORIC ACID, DISODIUM SALT
California Duan CE	

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

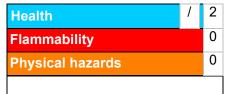
Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



#### Procedure used to derive the classification

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# Section 16. Other information

Classification		Justification	
		Calculation method	
History			
Date of issue/Date of revision	: 05/13/202 <sup>-</sup>		
Date of previous issue	: 03/05/2018	}	
Version	: 2		
Prepared by	: Sphera So	: Sphera Solutions	
Key to abbreviations	AMP = Acc 8-hr shift BCF = Bio GHS = Glo IATA = Inter IBC = Inter IMDG = Int LogPow = MARPOL :	concentration Factor bally Harmonized System of ernational Air Transport Asso mediate Bulk Container ernational Maritime Dangero logarithm of the octanol/wate International Convention for by the Protocol of 1978. ("I available	ous Goods er partition coefficient or the Prevention of Pollution From Ships, 1973
References	•	A.)- Hazard Communication al transport regulations	Standard

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.